

second substrate to a non-radiolabeled first substrate, in the presence or absence of a test compound;

- b. removing unreacted radiolabeled second substrate;
- c. adding a scintillant resin to an enzyme-radiolabeled first substrate mixture;
- d. measuring the amount of radiolabeled first substrate reacted in the presence of the test compound by scintillation counting, measuring the amount of radiolabeled first substrate reacted in the absence of the test compound by scintillation counting, and comparing the two measurements; and
- e. wherein when the amount of reacted first substrate is lower in the presence of a test compound than in the absence of the test compound, the test compound is identified as an inhibitor.

2. (AMENDED). A method according to Claim 1 wherein the first substrate is a peptide or protein.

4. (AMENDED) A method according to Claim 1 wherein the enzyme is a fatty acid biosynthesis enzyme.

5. (AMENDED) A method according to Claim 1 wherein the enzyme is a phosphate transfer enzyme.

6. (AMENDED) A method according to Claim 5 wherein the enzyme is a protein kinase or protein phosphatase enzyme.

7. (AMENDED) A method according to Claim 1 wherein the capture resin is an ionically charged resin.